0590
1005

OIPE

RAW SEQUENCE LISTING DATE: 07/30/2001
PATENT APPLICATION: US/09/757,774 TIME: 12:07:44

Input Set : N:\Crf3\RULE60\09757774.txt
Output Set: N:\CRF3\07302001\I757774.raw

<110> APPLICANT: Dintzis, Howard M.
Dintzis, Renee
Blodgett, James
Cheronis, John

<120> TITLE OF INVENTION: THERAPEUTIC SUPPRESSION OF SPECIFIC IMMUNE RESPONSES BY ADMINISTRATION OF OLIGOMERIC FORMS OF ANTIGEN OF CONTROLLED CHEMISTRY

<130> FILE REFERENCE: 07265/124004

<140> CURRENT APPLICATION NUMBER: 09/757,774
<141> CURRENT FILING DATE: 2001-01-09

<150> PRIOR APPLICATION NUMBER: US 08/440,322
<151> PRIOR FILING DATE: 1995-05-12

<150> PRIOR APPLICATION NUMBER: US 07/808,797
<151> PRIOR FILING DATE: 1991-12-17

<150> PRIOR APPLICATION NUMBER: US 07/628,858
<151> PRIOR FILING DATE: 1990-12-17

<150> PRIOR APPLICATION NUMBER: US 07/354,710
<151> PRIOR FILING DATE: 1989-05-22

<150> PRIOR APPLICATION NUMBER: US 07/248,293
<151> PRIOR FILING DATE: 1988-09-21

<150> PRIOR APPLICATION NUMBER: US 06/869,808
<151> PRIOR FILING DATE: 1986-05-29

<150> PRIOR APPLICATION NUMBER: US 06/460,266
<151> PRIOR FILING DATE: 1983-01-24

<160> NUMBER OF SEQ ID NOS: 23

<170> SOFTWARE: FastSEQ for Windows Version 4.0

<210> SEQ ID NO: 1
<211> LENGTH: 33
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 1

```
Pro Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Lys
 1               5                  10                  15
Ala Val Thr Lys Ala Gln Lys Lys Asp Gly Lys Lys Arg Lys Ala Tyr
            20                  25                  30
Cys
```

<210> SEQ ID NO: 2
<211> LENGTH: 16
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 2

```
Pro Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Cys
 1               5                  10                  15
```

<210> SEQ ID NO: 3
<211> LENGTH: 16
<212> TYPE: PRT
<213> ORGANISM: Mus musculus

RAW SEQUENCE LISTING DATE: 07/30/2001
PATENT APPLICATION: US/09/757,774 TIME: 12:07:44

Input Set : N:\Crf3\RULE60\09757774.txt
Output Set: N:\CRF3\07302001\I757774.raw

```
70 <400> SEQUENCE: 3
71 Cys Ala Pro Lys Lys Gly Ser Lys Lys Ala Val Thr Lys Ala Gln Lys
72   1               5                  10                  15
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 16
76 <212> TYPE: PRT
77 <213> ORGANISM: Mus musculus
79 <400> SEQUENCE: 4
80 Ala Pro Lys Lys Gly Ser Lys Lys Ala Val Thr Lys Ala Gln Lys Cys
81   1               5                  10                  15
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 16
85 <212> TYPE: PRT
86 <213> ORGANISM: Mus musculus
88 <400> SEQUENCE: 5
89 Cys Lys Ala Val Thr Lys Ala Gln Lys Lys Asp Gly Lys Lys Arg Lys
90   1               5                  10                  15
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 10
94 <212> TYPE: PRT
95 <213> ORGANISM: Mus musculus
97 <400> SEQUENCE: 6
98 Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys
99   1               5                  10
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 11
103 <212> TYPE: PRT
104 <213> ORGANISM: Mus musculus
106 <400> SEQUENCE: 7
107 Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys
108   1               5                  10
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 12
112 <212> TYPE: PRT
113 <213> ORGANISM: Mus musculus
115 <400> SEQUENCE: 8
116 Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys
117   1               5                  10
119 <210> SEQ ID NO: 9
120 <211> LENGTH: 13
121 <212> TYPE: PRT
122 <213> ORGANISM: Mus musculus
124 <400> SEQUENCE: 9
125 Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys
126   1               5                  10
128 <210> SEQ ID NO: 10
129 <211> LENGTH: 14
130 <212> TYPE: PRT
131 <213> ORGANISM: Mus musculus
```

RAW SEQUENCE LISTING DATE: 07/30/2001
PATENT APPLICATION: US/09/757,774 TIME: 12:07:44

Input Set : N:\Crf3\RULE60\09757774.txt
Output Set: N:\CRF3\07302001\I757774.raw

```
133 <400> SEQUENCE: 10
134 Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys
135   1               5                  10
137 <210> SEQ ID NO: 11
138 <211> LENGTH: 7
139 <212> TYPE: PRT
140 <213> ORGANISM: Mus musculus
142 <400> SEQUENCE: 11
143 Glu Pro Ala Lys Ser Ala Pro
144   1               5
146 <210> SEQ ID NO: 12
147 <211> LENGTH: 9
148 <212> TYPE: PRT
149 <213> ORGANISM: Mus musculus
151 <400> SEQUENCE: 12
152 Glu Pro Ala Lys Ser Ala Pro Ala Pro
153   1               5
155 <210> SEQ ID NO: 13
156 <211> LENGTH: 11
157 <212> TYPE: PRT
158 <213> ORGANISM: Mus musculus
160 <400> SEQUENCE: 13
161 Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys
162   1               5                  10
164 <210> SEQ ID NO: 14
165 <211> LENGTH: 14
166 <212> TYPE: PRT
167 <213> ORGANISM: Mus musculus
169 <400> SEQUENCE: 14
170 Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Glu Cys
171   1               5                  10
173 <210> SEQ ID NO: 15
174 <211> LENGTH: 15
175 <212> TYPE: PRT
176 <213> ORGANISM: Mus musculus
178 <400> SEQUENCE: 15
179 Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Glu Glu Cys
180   1               5                  10                  15
182 <210> SEQ ID NO: 16
183 <211> LENGTH: 25
184 <212> TYPE: PRT
185 <213> ORGANISM: Mus musculus
187 <220> FEATURE:
188 <221> NAME/KEY: VARIANT
189 <222> LOCATION: (1)...(25)
190 <223> OTHER INFORMATION: Xaa = O-ACA/Pro
192 <400> SEQUENCE: 16
W--> 193 Cys Xaa Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly
194   1               5                  10                  15
```

RAW SEQUENCE LISTING DATE: 07/30/2001
PATENT APPLICATION: US/09/757,774 TIME: 12:07:44

Input Set : N:\Crf3\RULE60\09757774.txt
Output Set: N:\CRF3\07302001\I757774.raw

```
195 Val Arg Gly Pro Arg Val Val Val Tyr
196              20                  25
198 <210> SEQ ID NO: 17
199 <211> LENGTH: 15
200 <212> TYPE: PRT
201 <213> ORGANISM: Mus musculus
203 <400> SEQUENCE: 17
204 Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Glu Glu Cys
205   1               5                  10                  15
207 <210> SEQ ID NO: 18
208 <211> LENGTH: 11
209 <212> TYPE: PRT
210 <213> ORGANISM: Mus musculus
212 <400> SEQUENCE: 18
213 Glu Ala His Ala Glu Ile Asn Glu Ala Gly Arg
214   1               5                  10
216 <210> SEQ ID NO: 19
217 <211> LENGTH: 37
218 <212> TYPE: PRT
219 <213> ORGANISM: Mus musculus
221 <400> SEQUENCE: 19
222 Cys Gly Ala Gly Glu Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala
223   1               5                  10                  15
224 Glu Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala Gly Ala Gly Arg
225              20                  25                  30
226 Gly Asp Ser Pro Ala
227          35
229 <210> SEQ ID NO: 20
230 <211> LENGTH: 24
231 <212> TYPE: PRT
232 <213> ORGANISM: Mus musculus
234 <400> SEQUENCE: 20
235 Glu Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala
236   1               5                  10                  15
237 Glu Ala Leu Ala Glu Ala Leu Ala
238              20
240 <210> SEQ ID NO: 21
241 <211> LENGTH: 33
242 <212> TYPE: PRT
243 <213> ORGANISM: Mus musculus
245 <400> SEQUENCE: 21
246 Glu Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala
247   1               5                  10                  15
248 Glu Ala Leu Ala Glu Ala Leu Ala Gly Ala Gly Arg Gly Asp Ser Pro
249              20                  25                  30
250 Ala
253 <210> SEQ ID NO: 22
254 <211> LENGTH: 10
255 <212> TYPE: PRT
```

RAW SEQUENCE LISTING DATE: 07/30/2001
PATENT APPLICATION: **US/09/757,774** TIME: 12:07:44

Input Set : **N:\Crf3\RULE60\09757774.txt**
Output Set: **N:\CRF3\07302001\I757774.raw**

256 <213> ORGANISM: Mus musculus
258 <400> SEQUENCE: 22
259 Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys
260 1 5 10
262 <210> SEQ ID NO: 23
263 <211> LENGTH: 15
264 <212> TYPE: PRT
265 <213> ORGANISM: Mus musculus
267 <400> SEQUENCE: 23
268 Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Glu Glu Cys
269 1 5 10 15

VERIFICATION SUMMARY DATE: 07/30/2001
PATENT APPLICATION: **US/09/757,774** TIME: 12:07:45

Input Set : **N:\Crf3\RULE60\09757774.txt**
Output Set: **N:\CRF3\07302001\I757774.raw**

L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16